

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Kurt MOLT et al.

Title: HEAT EXCHANGER, IN PARTICULAR FOR AN OVER CRITICAL COOLING CIRCUIT

Appl. No.: Unassigned

International Filing Date: 12/06/2004

371(c) Date: 07/11/2006

Examiner: Unassigned

Art Unit: Unassigned

Confirmation Number: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

### **TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the date of entry of the national stage as set forth in 37 CFR §1.491.

### **RELEVANCE OF EACH DOCUMENT**

The relevance of non-English language documents A7 and A13 is described in the present specification.

Documents A3-A7, A9, A10, A12 and A14 listed on the attached PTO/SB/08 was cited as being relevant during a search of the corresponding International application. A copy of the International Search Report setting forth the portion of each reference considered relevant by the examiner is attached.

Documents A1 and A13 belong to the same “patent family,” whereby the English language document may assist the PTO in understanding the content of the non-English language document.

Documents A2 and A12 belong to the same “patent family,” whereby the English language document may assist the PTO in understanding the content of the non-English language document.

Unless otherwise indicated, no English translation is readily available (not considering machine-generated translations that may be freely available online, to both the Applicant and the PTO) for each of the non-English language documents. However, a commercially available English language abstract is provided herewith, where indicated on the attached Form PTO/SB/08. Inasmuch as Applicants have endeavored to provide at least one item that complies with the requirement for a “concise explanation of relevance” for each of the non-English language documents, each of these documents has been submitted in compliance with

the PTO requirements and should be considered by the Examiner (37 CFR §1.97, §1.98 and MPEP §609).

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date July 11, 2006

By 

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: July 11, 2006  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
<b>Application Number</b>		Unassigned 535871			
<b>Filing Date</b>		07/11/2006			
<b>First Named Inventor</b>		Kurt MOLT			
<b>Group Art Unit</b>		Unassigned			
<b>Examiner Name</b>		Unassigned			
<b>Attorney Docket Number</b>		016906-0528			
<b>Sheet</b>	1	<b>of</b>	1		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	6,216,776	B1	KOBAYASHI ET AL.	04-17-2001	
	A2	5,076,353		HAUSSMANN	12-31-1991	
	A3	2003/0221819	A1	JANG	12-04-2003	
	A4	2003/0102113	A1	MEMORY ET AL.	06-05-2003	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
	A5	EP	1 298 401	A2	HALLA CLIMATE CONTROL CORP.	04-02-2003	
	A6	EP	0 608 439	A1	MODINE MANUFACTURING CO.	08-03-1994	
	A7	EP	0 414 433	A2	SHOWA ALUMINUM KABUSHIKI KAISHA	02-27-1991	
	A8	WO	98/51983	A1	NORSK HYDRO TECHNOLOGY B.V.	11-19-1998	
	A9	JP	2000-304380	A	AISIN SEIKI CO., LTD.	11-02-2000	Abst.
	A10	FR	2 793 015	A1	VALEO THERMIQUE MOTEUR	11-03-2000	Abst.
	A11	DE	100 07 159	A1	DENSO CORP	09-14-2000	Abst.
	A12	EP	0 401 752	A2	THERMAL-WERKE WÄRME-, KÄLTE-KLIMATECHNIK GMBH	12-12-1990	Abst.
	A13	DE	199 06 289	A1	DENSO CORP.	08-19-1999	Abst.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A14	J. Pettersen et al., "Development of compact heat exchangers for CO <sub>2</sub> air-conditioning systems," Int. J. Refrig., Vol. 21, No. 3, pages 180-193.	

<b>Examiner Signature</b>	<b>Date Considered</b>
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.